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## **C404M-D (8/00)**

### **EH3010/EH3014/EH3110**

### **Indoor Enclosures**

#### **DESCRIPTION**

The EH3010, EH3014 and EH3110 are indoor, light-duty camera enclosures. The aluminum enclosure has a removable rear cap with adjustable glands that make camera and cable installation simple. A removable front cap provides easy access for manual lens adjustment, without removing the camera.

#### **Models**

EH3010	Mounts horizontally, total camera and lens length must not exceed 8 inches (20.32 cm)
EH3014	Mounts horizontally, total camera and lens length must not exceed 12 inches (30.48 cm)
EH3110	Same as EH3010 except mounts vertically

#### **INSTALLATION**

The following items are supplied:

- 2 1/4-20 x .50-inch bolts
- 2 1/4-inch flat washers
- 2 1/4-inch split lock washers
- 2 Camera mounting screw, 1/4-20 x .375-inch, Phillips, pan head (EH3010 and EH3014 only)
- 1 Camera mounting screw, 1/4-20 x .375-inch, Phillips, pan head (EH3110 only)

#### **Camera and Lens**

1. Ensure that the mounting surface is capable of supporting four times the weight of the enclosure, camera and lens.
2. Remove the two Phillips head screws from the rear cap.
3. Remove the rear cap from the enclosure. Pull the sled assembly out and remove it from the rail.
4. Place the camera and lens on the sled assembly.
5. Secure the camera and lens to the sled with the 1/4-20 Phillips screw provided. Extend the lens to its maximum length before installing. This will ensure that the lens has enough clearance and will not hit the window during focusing.
6. Thread video and power cables through the glands in the rear cap. Connect cables to the camera. Tighten the glands around the cables. Refer to Tables A and B for wiring information.
7. Place the sled, with the camera, inside the enclosure.
8. Replace the end cap and secure with the Phillips head screws. Make sure the end cap is firmly seated against the enclosure.
9. To focus camera, remove the front cap and adjust the lens. Refer to the manual supplied with the lens.

## Mounting

Attach the enclosure to the appropriate mount or pan/tilt; refer to the instructions supplied with the equipment. Mount the EH3010 or EH3014 enclosure with the provided 1/4-20 bolts, flat washers, and split lock washers.

**Table A.** Video Coaxial Cable Requirements

Cable Type*	Maximum Distance
RG59/U	750 ft (229 m)
RG6/U	1,000 ft (305 m)
RG11/U	1,500 ft (457 m)

\* Minimum cable requirements:  
 75 ohms impedance  
 All-copper center conductor  
 All-copper braided shield with 95% braid coverage

**Table B.** 24 VAC Wiring Distances

The following are the recommended maximum distances for 24 VAC applications and are calculated with a 10-percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC-powered devices.)

### Wire Gauge

	20	18	16	14	12	10
10	283 (86)	451 (137)	716 (218)	1142 (348)	1811 (551)	2880 (877)
20	141 (42)	225 (68)	358 (109)	571 (174)	905 (275)	1440 (438)
30	94 (28)	150 (45)	238 (72)	380 (115)	603 (183)	960 (292)
40	70 (21)	112 (34)	179 (54)	285 (86)	452 (137)	720 (219)
50	56 (17)	90 (27)	143 (43)	228 (69)	362 (110)	576 (175)
60	47 (14)	75 (22)	119 (36)	190 (57)	301 (91)	480 (146)
70	40 (12)	64 (19)	102 (31)	163 (49)	258 (78)	411 (125)
80	35 (10)	56 (17)	89 (27)	142 (43)	226 (68)	360 (109)
90	31 (9)	50 (15)	79 (24)	126 (38)	201 (61)	320 (97)
100	28 (8)	45 (13)	71 (21)	114 (34)	181 (55)	288 (87)
110	25 (7)	41 (12)	65 (19)	103 (31)	164 (49)	261 (79)
120	23 (7)	37 (11)	59 (17)	95 (28)	150 (45)	240 (73)
130	21 (6)	34 (10)	55 (16)	87 (26)	139 (42)	221 (67)
140	20 (6)	32 (9)	51 (15)	81 (24)	129 (39)	205 (62)
150	18 (5)	30 (9)	47 (14)	76 (23)	120 (36)	192 (58)
160	17 (5)	28 (8)	44 (13)	71 (21)	113 (34)	180 (54)
170	16 (4)	26 (7)	42 (12)	67 (20)	106 (32)	169 (51)
180	15 (4)	25 (7)	39 (11)	63 (19)	100 (30)	160 (48)
190	14 (4)	23 (7)	37 (11)	60 (18)	95 (28)	151 (46)
200	14 (4)	22 (6)	35 (10)	57 (17)	90 (27)	144 (43)

Total vA consumed

Maximum distance from transformer to load

**EXAMPLE:** An enclosure that requires 80 vA and is installed 35 feet (10 m) from the transformer would require a minimum wire gauge of 20 Awg.

**NOTE:** Distances are calculated in feet; values in parentheses are meters.

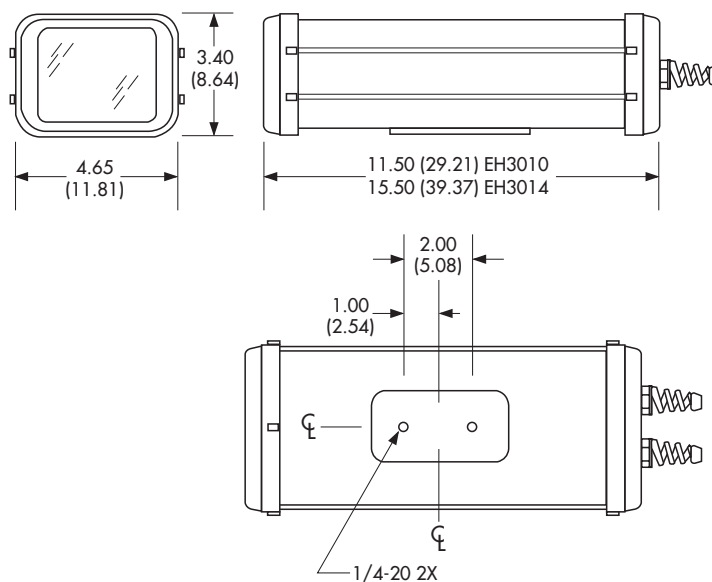
## MAINTENANCE

Regularly scheduled maintenance will help prolong the operational life and appearance of the equipment. Clean the window regularly with a mild nonabrasive detergent in water and a soft cloth to help maintain picture clarity.

## SPECIFICATIONS

Construction:	Extruded aluminum body; injection molded ABS end caps
Finish:	Gray polyester powder coat
Dimensions:	See Figure 1
Weight	
EH3010:	2.30 lb (1.06 kg)
EH3014:	3.50 lb (1.71 kg)
EH3110:	2.65 lb (1.22 kg)
Camera Mounting:	Multiple holes on camera sled
Camera Size:	Accommodates camera/lens combinations (including BNC connector) up to:
EH3014:	3.75 (W) x 2.75 (H) x 12.00 (L) inches (9.53 x 6.99 x 30.48 cm)
EH3010/EH3110:	3.75 (W) x 2.75 (H) x 8.00 (L) inches (9.53 x 6.99 x 20.32 cm)
Viewing Window:	.125-inch (.32 cm) thick Lucite® SAR, clear viewing area of 2.5 x 3.5 inches (6.3 cm x 8.9 cm)
Cable Entry:	Two compression glands on rear cap

*(Design and product specifications subject to change without notice.)*



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS;  
ALL OTHERS ARE IN INCHES.

**Figure 1.** Dimension Drawing

## WARRANTY AND RETURN INFORMATION

### WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, Endura™ Series distributed network-based video products, and TW3000 Series twisted pair transmission products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department  
Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors  
473 Eccles Avenue  
South San Francisco, CA 94080 USA  
Phone: 650-737-1700  
Fax: 650-737-0933

## REVISION HISTORY

Manual #	Date	Comments
C404M	12/88	Original version.
C404M-A	12/90	Manual revised to include new heater bracket, exploded assembly diagram and parts list update.
C404M-B	10/92	Manual revised to include updated manual style.
C404MC	9/95	Manual revised to incorporate new manual layout and new gasket part number per ECO 95-038. Removed sections and figures relating to HK3010/HK3024 and SS3010/SS3014. (Refer to manual C434 for relevant Heater Kit instructions.)
	9/97	Changed manual to new format. Incorporated addendum of May 24, 1996.
C404M-D	8/00	Moved exploded assembly diagram and parts lists to new maintenance/service manual (C404SM). Updated manual to new format.

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